

Claims

1. Automatic dosage unit for dosage of a product  
into a collection unit, wherein the dosage unit comprises  
5 an identification device, which is arranged to identify  
the size of the collection unit and on the basis of this  
size dose a predetermined amount of the product.

2. Automatic dosage unit according to claim 1,  
wherein the identification unit comprises a control unit,  
10 to control the dosage volume of the product in relation  
to the size of the collection unit.

3. Automatic dosage unit according to claim 1 or 2,  
wherein the identification unit comprises a fastening de-  
vice for receiving and fastening the collection unit dur-  
15 ing the dosage of the product.

4. Automatic dosage unit according to claims 1-3  
wherein the dosage unit comprises a grinding device,  
which is arranged to prepare, e.g. grind or mill, a prod-  
uct.

20 5. Automatic dosage unit according to any of the  
preceding claims, wherein the dosage unit comprises a  
storage unit for storage of a product.

6. Automatic dosage unit according to claim 4,  
wherein the grinding device consists of a set of conic  
25 knives comprising an outer knife, which in the main is  
funnel-shaped and an inner conic knife, which in the main  
is cone-shaped.

7. Automatic dosage unit according to claim 6  
wherein the outer conic knife is arranged to rotate  
30 around the inner knife.

8. Automatic dosage unit according to claim 6-7  
wherein, there is a play between the inner knife and the  
outer knife, said play facilitating the product moving

down through the set of conic knives and out into the collection unit during the preparation of the product.

9. Automatic dosage unit according claim 8, wherein an adjustment means is arranged to adjust the degree of preparation of the product, that is, adjust the play between the knives.

10. Automatic dosage unit according to claims 6-9, wherein a driving device is arranged to drive the grinding device, preferably the outer knife.

11. Automatic dosage unit according to claim 10, wherein a control unit is arranged in connection with the driving device so that the speed of rotation can be changed and thereby the time of preparation of the product.

12. Automatic dosage unit according to claim 5, wherein the storage unit is installed and uninstalled on the dosage unit itself by a rotary motion.

13. Automatic dosage unit according to claim 5 or 12, wherein a locking device is arranged to lock the storage unit on the dosage unit.

14. Automatic dosage unit according to claim 5, 12 or 13, wherein a closing device is placed between the storage unit and an inlet to the set of conic knives.

15. Automatic dosage unit according to claim 5 or 14, wherein the closing device is an integral part of the storage unit.

16. Automatic dosage unit according to claims 5 and 9, wherein a safety device is arranged to prevent movement of the driving device in the event the storage unit is removed from the dosage unit.

17. Automatic dosage unit according to any of the preceding claims, wherein the identification of the size of the collection unit is provided by means of a strain

gauge, micro switch, optical sensor, weighing cell, photo identification, telemeter or similar.

18. Automatic dosage unit according to claims 14 or 15, wherein the closing device comprises at least one opening and at least one blocking device so that the closing device can dose different amounts of the product by varying the size of the opening by means of the blocking device.

19. Automatic dosage unit according to claim 18, wherein the blocking device is arranged to hermetically block the opening of the closing device.

20. Automatic dosage unit according to any of the preceding claims, wherein the dosage unit comprises means for suppressing vibration.

21. Automatic dosage unit according to any of the preceding claims, wherein a guiding device, such as a funnel, is arranged to lead the product to the collection unit.

22. Automatic dosage unit according to any of the preceding claims, wherein the dosage unit is provided with anti-static effect in a way that the product in the main can be dosed without sticking to the unit.

23. Automatic dosage unit according to claim 22, wherein the anti-static effect is provided in the design of an outlet from the knives and the funnel so that the product is ensured a flow, whereby the product is discharged on the way to the collection unit.

24. Automatic dosage unit according to claim 22, wherein the anti-static effect is provided by a surface treatment of the areas, with which the product is in contact.

25. Automatic dosage unit according to claim 24, wherein the treatment of surfaces comprise polishing, eloxation or application of a coating.

26. Automatic dosage unit according to any of the  
5 preceding claims, wherein a positioning device is arranged to ensure that the collection unit is placed in a predetermined position, in which position the prepared product is dosed.

27. Automatic dosage unit according to any of the  
10 preceding claims, wherein a memory unit is arranged to store information concerning the operation of the dosage unit.

28. Storage unit for automatic dosage unit according to claims 1-27, which comprise a closing device.

15 29. Use of an automatic dosage unit according to claims 1-27 for preparation and dosage of coffee beans.